

Title (en)

ASSEMBLED SELF-RECOVERY CIRCULAR CONCRETE-FILLED STEEL TUBE COMPOSITE JOINT

Title (de)

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Title (fr)

JOINT DE TUBE EN ACIER REMPLI DE BÉTON COMPOSITE CIRCULAIRE À RESTAURATION AUTOMATIQUE ASSEMBLÉ

Publication

**EP 3660237 B1 20210623 (EN)**

Application

**EP 18891819 A 20180412**

Priority

- CN 201711390229 A 20171221
- CN 2018082751 W 20180412

Abstract (en)

[origin: US2019376273A1] An assembled self-recovery circular concrete-filled steel-tube composite joint includes a circular steel-tube column and H-shaped steel beams, where steel bars penetrate through the circular steel-tube column; the circular steel-tube column includes an upper steel-tube column section, a central inserted-connection column section and a lower steel-tube column section; the upper steel-tube column section is connected to the central inserted-connection column section through an upper sleeve connector, and the central inserted-connection column section is connected to the lower steel-tube column section through a lower sleeve connector; and the H-shaped steel beams are connected to the circular steel-tube column through the upper sleeve connector and the lower sleeve connector. According to the assembled self-recovery circular concrete-filled steel-tube composite joint, all members are machined in a factory and are connected on site through bolts.

IPC 8 full level

**E04B 1/18** (2006.01); **E04B 1/24** (2006.01); **E04B 1/30** (2006.01); **E04B 1/58** (2006.01); **E04H 9/02** (2006.01)

CPC (source: CN EP US)

**E04B 1/185** (2013.01 - CN EP); **E04B 1/21** (2013.01 - US); **E04B 1/2403** (2013.01 - EP US); **E04H 9/024** (2013.01 - EP); **E04B 2001/2406** (2013.01 - EP US); **E04B 2001/2415** (2013.01 - EP); **E04B 2001/2418** (2013.01 - US); **E04B 2001/2448** (2013.01 - EP); **E04B 2001/2457** (2013.01 - US); **E04B 2001/246** (2013.01 - EP); **E04B 2001/2478** (2013.01 - EP)

Cited by

CN111764510A; CN111997263A; CN113463773A; WO2022062285A1; WO2023042003A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**US 10633851 B2 20200428**; **US 2019376273 A1 20191212**; CN 107916726 A 20180417; CN 107916726 B 20181204; DK 3660237 T3 20210906; EP 3660237 A1 20200603; EP 3660237 A4 20201118; EP 3660237 B1 20210623; HU E055704 T2 20211228; JP 2020514572 A 20200521; JP 6781488 B2 20201104; WO 2019119686 A1 20190627

DOCDB simple family (application)

**US 201816480314 A 20180412**; CN 201711390229 A 20171221; CN 2018082751 W 20180412; DK 18891819 T 20180412; EP 18891819 A 20180412; HU E18891819 A 20180412; JP 2019516467 A 20180412